



**Australian Government**  
**Great Barrier Reef**  
**Marine Park Authority**

# Be a Marine Biologist for a Day

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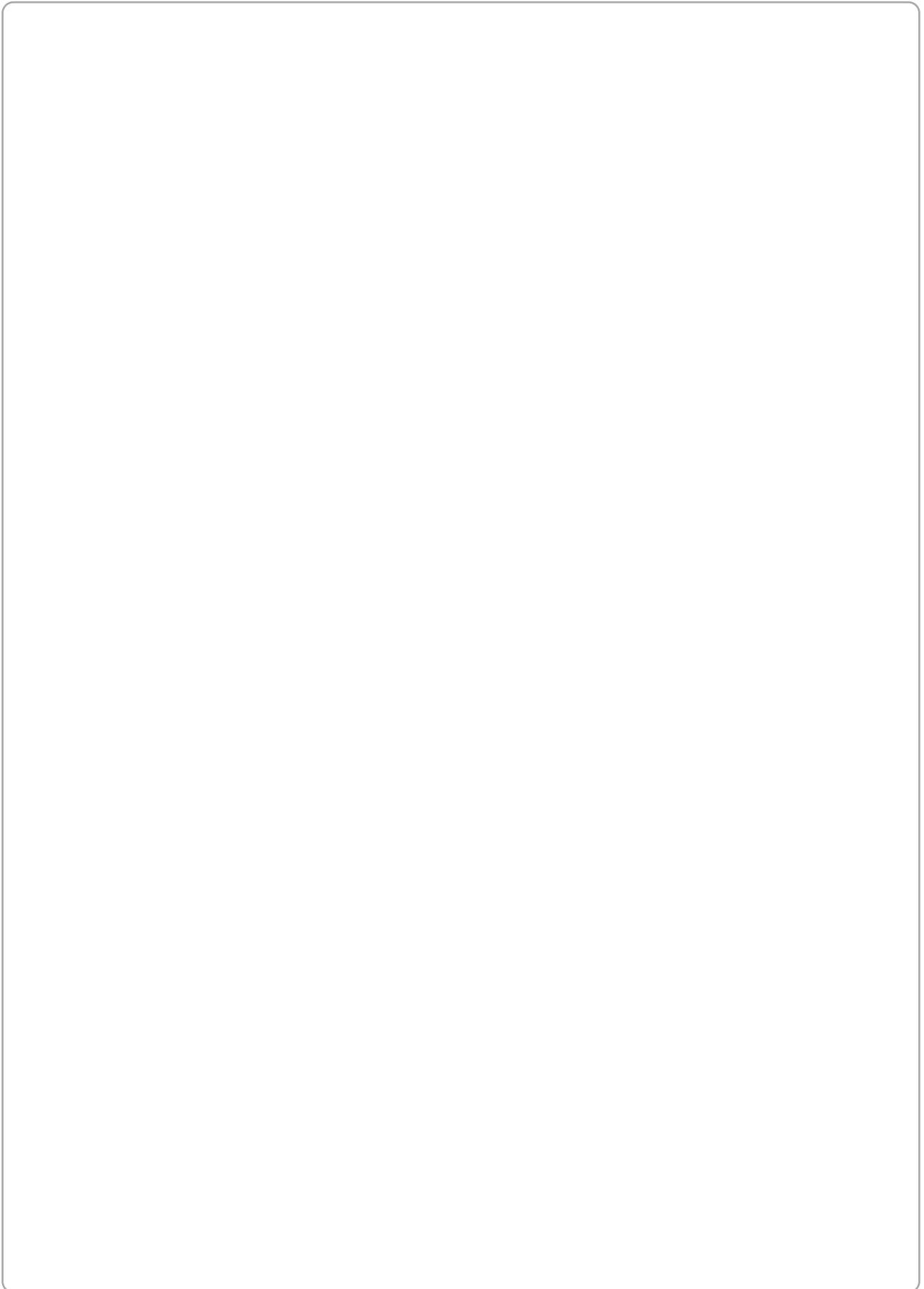
**Activity Booklet**  
**Year 9**



**NAME:**

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## How can I help the Great Barrier Reef?



# What is citizen science?



# Sea cucumber


Draw a labelled diagram of a sea cucumber below.



How does a sea cucumber defend itself when threatened?



What and how does a sea cucumber eat?



# Giant clam

>30cm

Draw a labelled diagram of a giant clam in the box below.



Can giant clams see?

How many holes (siphons) are there in a giant clam?

# Anemonefish

Draw a labelled diagram of an anemonefish below.

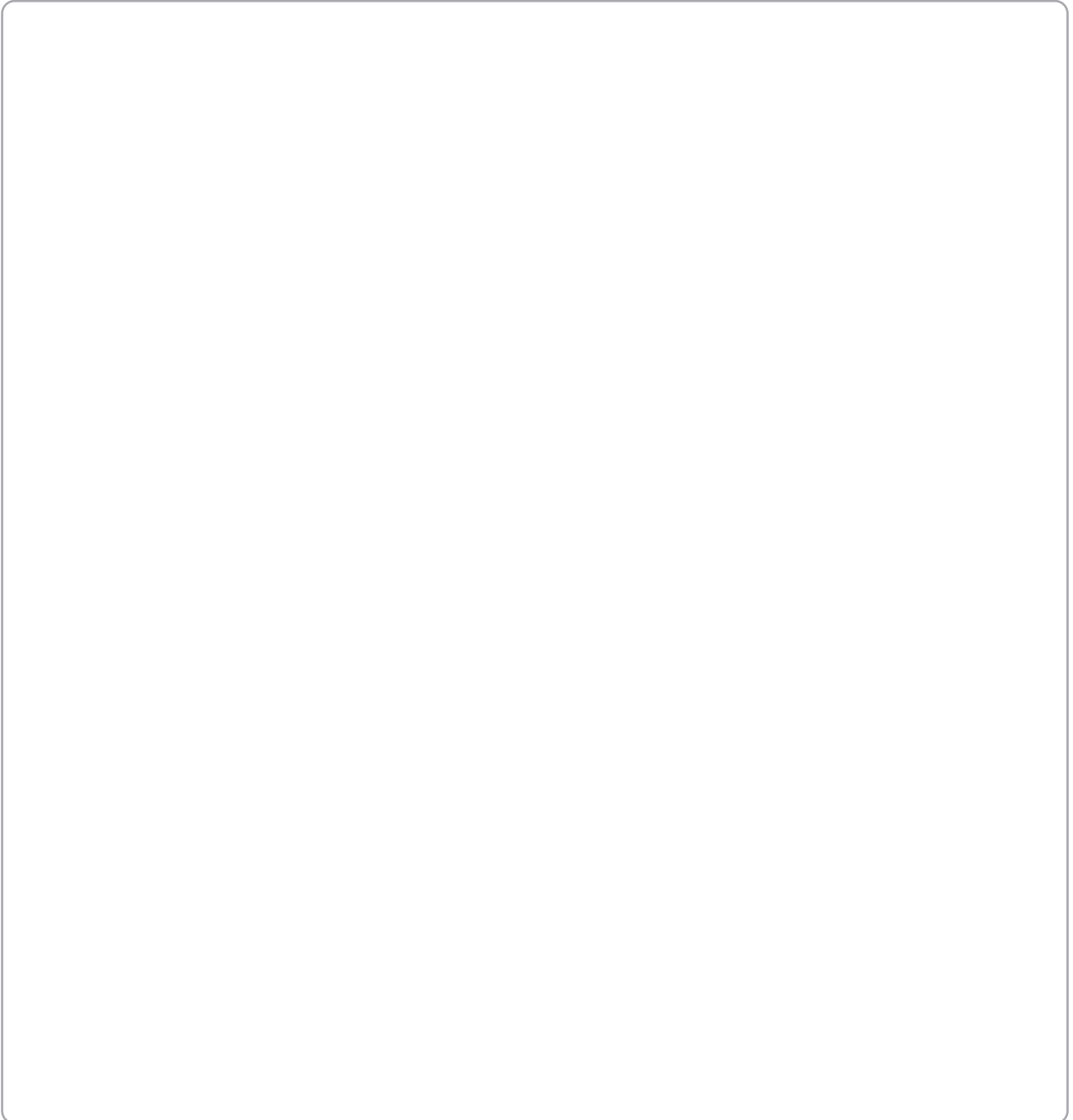


Is the biggest anemonefish male or female?



# Butterflyfish

Draw a labelled diagram of a butterflyfish below.



How do butterflyfish amplify the sounds they make and hear?



# Grazing herbivores

Parrotfish / Surgeonfish / Unicornfish / Rabbitfish

Draw a labelled diagram of a grazing herbivore below.



Why are they called the lawnmowers of the Reef?



Why are some grazing herbivores called surgeonfish?





# Cods and groupers

>50cm

Draw a labelled diagram of a cod or grouper below.



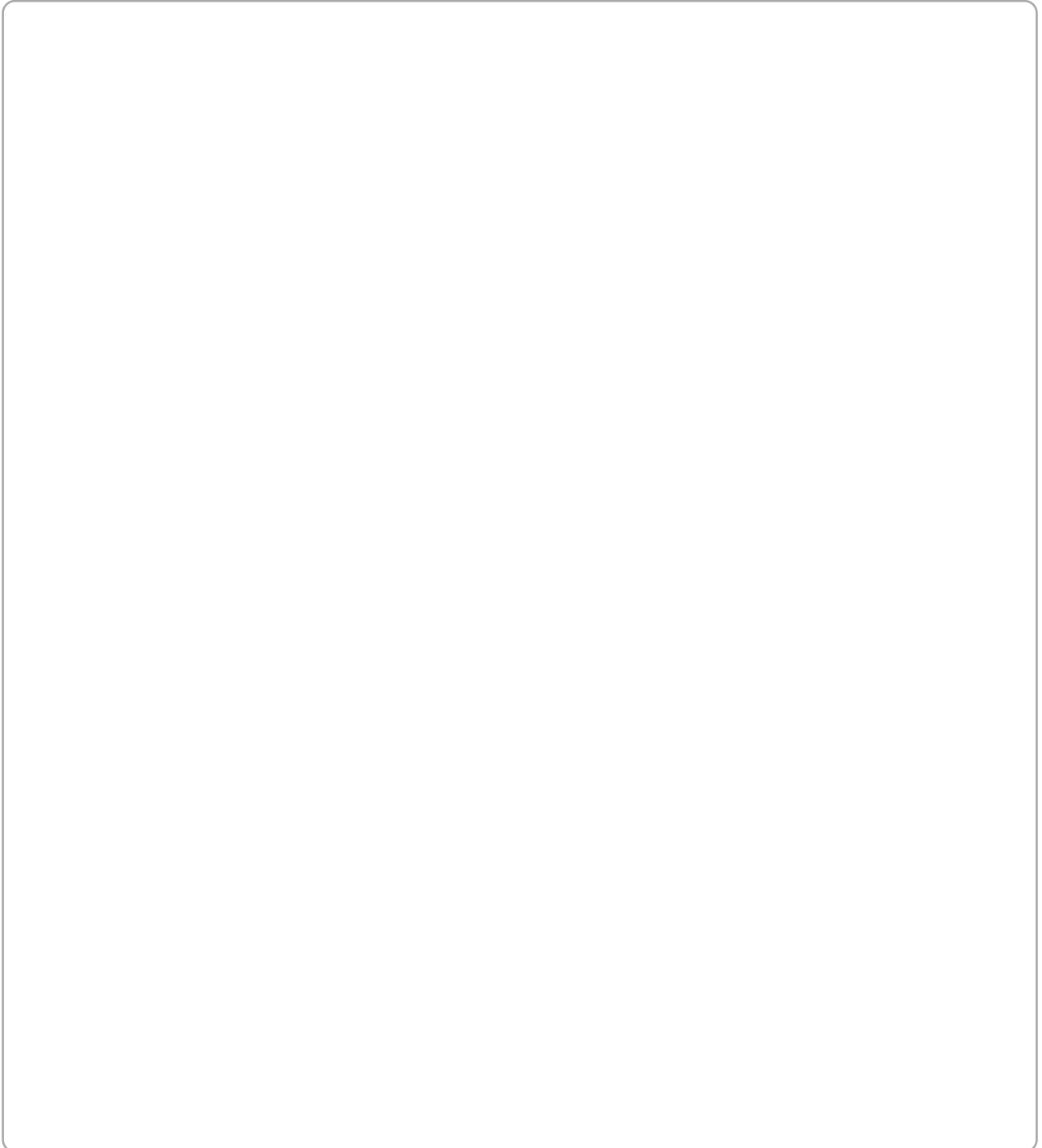
What are some territorial behaviours of Queensland grouper?



# Coral trout

<38cm / >38cm

Draw a labelled diagram of a coral trout in the box below.



Why is it bad to eat extra-large reef fish?



# Maori wrasse

Male / Female

Draw a labelled diagram of a male Maori wrasse below.



Where do Maori wrasse live?



What happens if people touch a Maori wrasse?



# Sea turtles

Green / Hawksbill / other

Draw a labelled diagram of a green turtle head and shell.



How many sea turtles are threatened with extinction?

What do sea turtles like to eat that look like jellyfish?

For every kilogram of plankton in the Great Pacific Garbage Patch, how many kg is plastic? 1, 2, 3 or 6kg?

# Sharks

Whitetip / Blacktip / other

Draw a labelled diagram of a great white shark.



What are the tiny black dots around the nose and mouth of a shark?




# QUIZ ANSWER SHEET


SCORE: \_\_\_\_\_

Question	Answer	✓×
1		
2		
3		
4		
5		
6		
7		
8		
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11		
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25		
26		
27		
28		
29		
30		

Complete this table with your Reef Guide after counting the animals on the reef.



**EYE ON THE REEF**  
EYES REEFERS



Queensland  
GOVERNMENT

Marine Park Authority  
Queensland Conservation  
Coast Service Reef  
Marine Park Authority

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**Rapid Monitoring**

Observer name: ..... Phone: ..... Date: .....

Email: ..... Organisation: ..... Time: .....

Vessel: ..... Observer category:  Reef  Marine tourism  Fisher  Traditional owner  
(pick one)

Number of visits to a reef: ..... Survey experience  visitor  Other  (please specify) .....  
(approximate number of surveys completed)

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Reef ID (e.g. 16-023): ..... Reef name: ..... Site: .....

Centre of survey: Lat: ..... S ..... E ..... Long: ..... S ..... E ..... Marine Park Zone: .....  
Tick one GPS type (examples over page)  Decimal Degrees (preferred)  Degrees Min Sec  Degrees Min Sec












Survey type (pick one):  Snorkel  Dive  Viewing bucket Water temperature: ..... °C

Survey depth: ..... metres

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Habitat type (circle one)	Flood plume (circle one)	Suspended algal bloom (circle one)	Tide at survey (circle one)	Visibility (circle one)
LAGOON FLAT CREST SLOPE	YES NO	YES NO	LOW MED HIGH	<5m 5-10m >10m

Complete this table with your Reef Guide after counting the animals on the reef.

Timed swim (10 minutes)		See over page for survey methodology				
ANIMALS	TALLY	TOTAL	ANIMALS	SIZE	TALLY	TOTAL
Sea cucumber (all species) 			Coral trout (all species) 	<38cm >38cm		
Giant clam (larger than size of hand) 			Maori wrasse 	SEX Male Female		
Anemonefish (all species) 			Turtle (all species) 	TYPE Green Turtle* Hawksbill Turtle* Other (please name)		
Butterflyfish (all species) 			Shark (all species) 	Whitetip reef shark Blacktip reef shark Other (please name)		
Grazing herbivores See definition over page 			Crown-of-thorns starfish 	Juvenile Adult		
Cods and groupers (over 50cm in length) 						



Complete back at school after your excursion.

***How did I help the  
Great Barrier Reef?***

Below, draw a picture or write about your day on the Reef!

A large, empty rectangular box with rounded corners, intended for a student to draw a picture or write about their day on the reef. The box is completely blank and occupies most of the page's vertical space.